

WHAT IS CLAIMED IS:

1. A connector assembly comprising:

a hollow first connection part having a first end and a second end, said first end having a barb protruding from an external surface thereof for connecting to a silicon tube, said second end having an internal threaded surface, and an externally projecting annular rib, said internal surface extending from said second end to said first end with said internal threaded surface, a first bore, a first shoulder transitioning to a second reduced diameter bore, a second shoulder transitioning to a third further reduced diameter bore, said second shoulder having at least a portion thereof being beveled;

a hollow second connecting part being threadably connected to said first connection part, said second connecting part having a first end and a second end, said first end having an external threaded surface that mates with the internal threaded surface of said first connection part, said second part having a rib protruding from an external surface thereof, said rib having a recessed notch;

a locking sleeve having a first end and a second end, each of said ends having a lip projecting radially inwardly therefrom, said lip at said second end being fixedly received within said recessed notch, said lip at said first end being disposed about said external surface of said first connection part on a side of said externally projecting annular rib remote from said second end of said first connection part, said locking sleeve being axially movable with respect to said first connection part, said axial movement in one direction being limited by abutment of said externally projecting annular rib of said first connection part and said inwardly projecting lip on said first end of said locking sleeve, thereby preventing disassembly of said first connecting part and said second connecting part;

a kink proof catheter being disposed within at least a portion of said first connection part and said second connection part, said kink proof catheter being essentially inflexible to radial expansion thereof;

a collet being disposed about at least a portion of said kink proof catheter and within said second bore of said first connection part;

at least one o-ring being disposed about at least a portion of said kink proof catheter and within said first bore of said first connection part;

a spacer being disposed about at least a portion of said kink proof catheter and within said first bore of said first connection part; and

a silicone catheter being disposed about said first end external surface of said first connection part.

2. The connector assembly according to claim 1, wherein said collet has an external beveled surface that mates with the beveled second shoulder of said first connection part.
3. The connector assembly according to claim 1, wherein said spacer is disposed between said collet and said at least one o-ring.
4. The connector assembly according to claim 1, wherein said externally projecting annular rib of said first connecting part is disposed at a predetermined distance from said second end.
5. The connector assembly according to claim 1, wherein said internal surface of said first connection part further includes a third shoulder transitioning to a fourth further reduced diameter bore.
6. The connector assembly according to claim 1, wherein a radial inner portion of said second shoulder of said first connection part includes said beveled portion.
7. The connector assembly according to claim 6, wherein said collet has an external beveled surface that mates with the beveled second shoulder portion of said first connection part.
8. The connector assembly according to claim 1, wherein said kink proof catheter includes a wire coil connected to an internal surface thereof.
9. The connector assembly according to claim 8, wherein said wire is made of titanium.
10. The connector assembly according to claim 9, wherein said wire has a diameter of about 0.005 inches.
11. The connector assembly according to claim 1, wherein said collet includes a plurality of slots.

12. The connector assembly according to claim 1, wherein said silicone catheter is disposed about said barb.

13. A connector comprising:

a hollow first connection part having a first end and a second end, said first end having a barb protruding from an external surface thereof for connecting to a silicon tube, said second end having an internal threaded surface, and an externally projecting annular rib, said internal surface extending from said second end to said first end with said internal threaded surface, a first bore, a first shoulder transitioning to a second reduced diameter bore, a second shoulder transitioning to a third further reduced diameter bore, said second shoulder having at least a portion thereof being beveled;

a hollow second connecting part being threadably connected to said first connection part, said second connecting part having a first end and a second end, said first end having an external threaded surface that mates with the internal threaded surface of said first connection part, said second part having a rib protruding from an external surface thereof, said rib having a recessed notch;

a locking sleeve having a first end and a second end, each of said ends having a lip projecting radially inwardly therefrom, said lip at said second end being fixedly received within said recessed notch, said lip at said first end being disposed about said external surface of said first connection part on a side of said externally projecting annular rib remote from said second end of said first connection part, said locking sleeve being axially movable with respect to said first connection part, said axial movement in one direction being limited by abutment of said externally projecting annular rib of said first connection part and said inwardly projecting lip on said first end of said locking sleeve, thereby preventing disassembly of said first connecting part and said second connecting part;

a collet being disposed within said second bore of said first connection part for selectively fixedly engaging with the outer surface of a kink proof catheter;

at least one o-ring being disposed within said first bore of said first connection part for selectively sealingly engaging with the outer surface of a kink proof catheter; and

a spacer being disposed within said first bore of said first connection part.

14. The connector according to claim 13, wherein said collet has an external beveled surface that mates with the beveled second shoulder of said first connection part.

15. The connector according to claim 13, wherein said spacer is disposed between said collet and said at least one o-ring.

16. The connector according to claim 13, wherein said externally projecting annular rib of said first connecting part is disposed at a predetermined distance from said second end.

17. The connector according to claim 13, wherein said internal surface of said first connection part further includes a third shoulder transitioning to a fourth further reduced diameter bore.

18. The connector according to claim 13, wherein a radial inner portion of said second shoulder of said first connection part includes said beveled portion.

19. The connector according to claim 18, wherein said collet has an external beveled surface that mates with the beveled second shoulder portion of said first connection part.

20. The connector according to claim 13, wherein said collet includes a plurality of slots.

21. A connector comprising:

a hollow first connection part having a first end and a second end, said first end having a barb protruding from an external surface thereof for connecting to a silicon tube, said second end having an internal threaded surface, and an externally projecting annular rib, said internal surface extending from said second end to said first end with said internal threaded surface, a first bore, a first shoulder transitioning to a second reduced diameter bore, a second shoulder transitioning to a third further reduced diameter bore, said second shoulder having at least a portion thereof being beveled;

a hollow second connecting part being threadably connected to said first connection part, said second connecting part having a first end and a second end, said first end having an external threaded surface that mates with the internal threaded surface of said first connection part, said second part having a rib protruding from an external surface thereof, said rib having a recessed notch; and

a locking sleeve having a first end and a second end, each of said ends having a lip projecting radially inwardly therefrom, said lip at said second end being fixedly received

within said recessed notch, said lip at said first end being disposed about said external surface of said first connection part on a side of said externally projecting annular rib remote from said second end of said first connection part, said locking sleeve being axially movable with respect to said first connection part, said axial movement in one direction being limited by abutment of said externally projecting annular rib of said first connection part and said inwardly projecting lip on said first end of said locking sleeve, thereby preventing disassembly of said first connecting part and said second connecting part;

22. The connector according to claim 21, further comprising a collet being disposed within said second bore of said first connection part for selectively fixedly engaging with the outer surface of a kink proof catheter.

23. The connector according to claim 22, further comprising at least one o-ring being disposed within said first bore of said first connection part for selectively sealingly engaging with the outer surface of a kink proof catheter.

24. The connector according to claim 23, further comprising a spacer being disposed within said first bore of said first connection part between said collet and said at least one o-ring.